

[Document's Name]    Scope of the Claim for Patent

[Claim 1]

A passive type emission flux sampler for measuring a emission flux of a specified chemical sample released from an inspection object into air, in which

an opening is formed to a bottom surface of a hollow casing to be bonded to an inspection object for taking in a chemical substance released from the inspection object into the casing in a state of bonding the bottom surface to the inspection object, a test specimen that takes place color change reaction with the chemical substance under a humid circumstance is disposed to the inner surface of the casing of an opposite side of the opening, and the casing has a gas barrier property.

[Claim 2]

A passive type emission flux sampler for measuring a emission flux of a specified chemical sample released from an inspection object into air, in which

an opening is formed to a bottom surface of a hollow casing to be bonded to an inspection object for taking in a chemical substance released from the inspection object into the casing in a state of bonding the bottom surface to the inspection object, a test specimen that takes place color change reaction with the chemical substance under a humid

circumstance is disposed to the inner surface of the casing of an opposite side of the opening, and a transparent observing section is formed to the casing for observing the color change of the test specimen from the outside in a state being bonded to the inspection object.

[Claim 3]

A passive type emission flux sampler according to claim 2, wherein the hollow casing has a gas barrier property.

[Claim 4]

A passive type emission flux sampler according to claim 1 or 3, wherein a gas barrier film is formed to at least one of the outer surface or the inner surface of the hollow casing to provide the hollow casing with a gas barrier property.

[Claim 5]

A passive type emission flux sampler according to claim 1, 2 or 3, wherein a water retaining material for keeping the test specimen in a humid circumstance is disposed in the hollow casing.

[Claim 6]

A passive type emission flux sampler according to

claim 1, 2 or 3, wherein an annular rib extending from the end edge of the opening to the inside of the casing is formed.

[Claim 7]

A passive type emission flux sampler according to claim 1, 2 or 3, wherein an air permeable spacer of a predetermined thickness for ensuring an predetermined distance between the opening and the test specimen is disposed.

[Claim 8]

A measuring apparatus for emission flux of a passive type flux sampler using a test specimen that takes place color change reaction with a specified chemical substance under humid circumstance, in which

the flux sampler is formed with an opening at the bottom surface of a hollow casing to be bonded to an inspection object for taking in a chemical substance released from an inspection object into the casing, a test specimen that takes place color change reaction with the chemical substance in a humid circumstance is disposed to the inner surface of the casing of an opposite side of the opening,

a light shielding chamber formed with a setting stage for positioning the flux sampler reacted for a predetermined time is provided with an light source for irradiating a

measuring light to the test specimen of the flux sampler, and an optical sensor for detecting the intensity of a reflection light from the test specimen of flux sampler, and

a calculation processing device for calculating the emission flux based on the intensity of the reflection light detected by the optical sensor is provided.

[Claim 9]

A measuring apparatus for emission flux of a passive type flux sampler using a test specimen that takes place color change reaction with a specified chemical substance under humid circumstance, in which

the flux sampler is formed with an opening at the bottom surface of a hollow casing to be bonded to an inspection object for taking in a chemical substance released from an inspection object into the casing, a test specimen that takes place color change reaction with the chemical substance in a humid circumstance is disposed to the inner surface of the casing of an opposite side of the opening, and the casing is formed with a transparent observing section for observing the color change of the test specimen from the outside in a state being bonded to the inspection object,

a light shielding chamber formed with a setting stage for positioning the flux sampler reacted for a predetermined time is provided with an light source for irradiating a

measuring light to the test specimen of the flux sampler through the observing section, and an optical sensor for detecting the intensity of a reflection light from the test specimen of flux sampler, and

a calculation processing device for calculating the emission flux based on the intensity of the reflection light detected by the optical sensor is provided.